| Inde | ex of Cla | aims |
|------|-----------|------|
|      |           |      |

| Application/Control No |
|------------------------|
|------------------------|

10/698,323

Examiner Zeinab E. EL-Arini Applicant(s)/Patent under Reexamination

**BUEHLER, MARK** 

Art Unit

1746

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla   | im       |           |          |          |               | ate           | •        |        | •        |          | Cla      | aim          |          |          |   | Da      | te                      |          |          |           | [   | Cla   | aim          |                           |                    |          |                                     | Date            | •        |          | -   |          |
|---|----------|-----------|----------|----------|---------------|---------------|----------|--------|----------|----------|----------|--------------|----------|----------|---|---------|-------------------------|----------|----------|-----------|-----|-------|--------------|---------------------------|--------------------|----------|-------------------------------------|-----------------|----------|----------|---|----------|
| _   | <u></u>  |           |          |          |               |               |          |        |          |          | 1_       | <del>-</del> |          |          | 1   |         |                         |          | l        |           |     |       | <del>-</del> |                           |                    |          |                                     |                 |          |          |   |          |
| Final   | Original | 36        |          |          |               |               |          |        |          |          | Final    | Original     |          |          |   | ŀ       |                         |          |          | - 1       |     | Final | Original     |                           |                    |          |                                     |                 |          | ı        |   |          |
| <u> </u>  | Ö        | 06        |          |          |               | - 1           |          |        |          |          | ፲፫       | 5            |          |          |   |         |                         |          |          | - 1       | ı   | Œ.    | Ö            |                           |                    |          |                                     | ١.              |          |          |   |          |
|   |          | V         | $\vdash$ | $\dashv$ | _             |               |          |        |          | _        |          | L            | $\vdash$ | $\sqcup$ | -   | _       | 4                       | $\perp$  |          | _         |     |       |              | _                         | _                  |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |                 |          |          | _   |          |
| $\vdash \vdash$   | 2        | X         | -        | $\dashv$ | $\dashv$      | $\dashv$      |          |        |          |          | -        | 51           | +-       | $\vdash$ | _   | 4       | _                       |          | $\dashv$ | 4         | -   |       | 101          |                           | $\dashv$           |          |                                     | L.              | _        | _        | _   | _        |
| $\vdash$  | 3        | $\vdash$  | $\vdash$ | -        |               |               |          |        | $\vdash$ | $\dashv$ |          | 52<br>53     | $\vdash$ | $\dashv$ | -   | -       | +                       | $\vdash$ | $\dashv$ | ႕         | - } |       | 102          |                           | _                  |          | -                                   | Щ               | -        | 4        | _   |          |
|   | 4        | Н         | $\dashv$ | $\dashv$ |               | $\dashv$      |          | -      |          |          | -        | 54           | -        |          | +   | +       | +-                      | -        | $\dashv$ | 긕         | - } |       | 103          | -                         | $\dashv$           |          | ├-                                  |                 |          |          | $\dashv$  |          |
| <del> +</del>   | 5        | Н         | $\vdash$ | -        |               | $\dashv$      |          | -      | $\vdash$ | $\dashv$ |          | 55           | -        | -        | +   | +       | +                       | +        | $\dashv$ | ⊣         | - } |       | 104          |                           | $\dashv$           |          | <u> </u>                            |                 |          | $\dashv$ | 4   |          |
|   | 6        | Н         | -+       | $\dashv$ | +             | $\dashv$      |          |        | H        | $\dashv$ |          | 56           | $\vdash$ | $\vdash$ |   | +       | ╁                       | $\vdash$ | $\dashv$ |           | ŀ   |       | 105<br>106   |                           | $\dashv$           |          | ⊢                                   |                 |          | $\dashv$ | $\dashv$  | _        |
|   | 7        | Н         | +        | -        | _             | $\dashv$      |          |        | $\vdash$ | $\dashv$ |          | 57           | +        | $\dashv$ | $\dashv$  | ╁       | ╁╌                      | +        | $\dashv$ | $\dashv$  | ŀ   |       | 107          |                           | $\dashv$           | _        | $\vdash$                            | H               |          | -        | $\dashv$  | _        |
|   | 8        | H         | Ħ        | ٦        | _             | $\dashv$      |          | -      |          | $\dashv$ |          | 58           | +-       | $\dashv$ | $\dashv$  | +       | ╁┈                      | $\vdash$ | H        | $\dashv$  | ŀ   |       | 108          | $\neg$                    | $\dashv$           |          | ├                                   |                 | -        | -        | -   | _        |
|   | 9        | Ш         | Ħ        | 7        | _             |               |          |        |          | $\dashv$ |          | 59           | 1        | $\dashv$ |   | $\top$  | +-                      |          | $\vdash$ | $\dashv$  | ŀ   |       | 109          |                           | +                  | -        | -                                   |                 | Н        | -        | $\dashv$  | $\dashv$ |
|   | 10       | Ш         | $\Box$   | ┪        |               | $\neg$        |          |        |          | $\neg$   |          | 60           | T        | $\dashv$ |   | $\top$  | $\top$                  |          |          | 目         | ŀ   |       | 110          |                           | $\dashv$           | -        | -                                   |                 |          | $\dashv$ | +   | -        |
|   | 11       | Ш         | $\Box$   | 一        |               |               |          |        |          | $\neg$   |          | 61           |          | П        | 十   | $\top$  | $\top$                  | П        | $\sqcap$ | $\dashv$  | ļ   |       | 111          |                           | $\neg \uparrow$    |          | 1                                   | H               |          | -        | $\dashv$  | _        |
|   | 12       |           |          |          |               | _             |          |        |          |          |          | 62           | П        | $\Box$   | $\dashv$  | $\top$  | $\top$                  |          |          | $\exists$ | Ì   |       | 112          | $\neg$                    |                    |          | i —                                 | П               | П        | 7        | $\dashv$  |          |
|   | 13       |           |          |          |               |               |          |        |          |          |          | 63           |          |          |   | $\top$  |                         |          |          | $\neg$    | Ì   |       | 113          |                           |                    |          | Π                                   | П               |          | $\neg$   | $\dashv$  |          |
|   | 14       | $\coprod$ |          |          |               |               |          |        |          |          |          | 64           |          |          |   |         |                         |          |          |           | Ì   |       | 114          |                           |                    |          |                                     |                 |          | 寸        | 寸   |          |
|   | 15       | Ш         |          |          |               |               |          |        |          |          |          | 65           |          |          |   |         |                         |          |          |           | [   |       | 115          |                           |                    |          |                                     |                 |          |          |   |          |
|   | 16       | Ш         | Щ        |          | $\Box$        |               |          |        | Ш        |          |          | 66           |          |          | $oldsymbol{\perp}$  |         |                         |          |          |           | [   |       | 116          |                           |                    |          |                                     |                 |          |          |   |          |
|   | 17       | Ш         |          | _        | _             |               |          |        | $\sqcup$ | _        |          | 67           |          |          |   |         |                         |          |          |           | [   |       | 117          |                           |                    |          |                                     |                 |          |          | $\Box$  |          |
|   | 18       | Ш         |          | $\dashv$ | _             | ]             |          | L      |          | _        |          | 68           |          | Ш        |   | 1       | $\perp$                 |          |          | _         | Į   |       | 118          |                           |                    |          | <u> </u>                            |                 |          |          |   |          |
|   | 19       | Ш         |          | _        |               |               |          |        | Ш        | _        |          | 69           |          |          | _   | ┸       | $\perp$                 |          |          | _         | L   |       | 119          |                           |                    |          | L                                   | L               |          |          |   |          |
| 1   | 20       | Ш         |          | _        | _             | _             |          |        | Ш        |          | <u> </u> | 70           |          | Ш        |   | ┸       | ↓.                      | <u> </u> |          | _         | ļ   |       | 120          | _                         |                    |          |                                     |                 |          | _        |   |          |
| $\vdash$  | 21       | Ш         | _        | 4        | $\rightarrow$ | _             | _        |        | Щ        |          |          | 71           | ↓        | $\perp$  |   | $\perp$ | ↓                       | ┸        |          | _         |     |       | 121          | _                         |                    |          |                                     |                 |          |          | $\perp$   |          |
| <del>├</del>  | 22       | M         |          |          | _             | _             |          |        | <u> </u> | _        |          | 72           |          | $\Box$   | $\perp$   | 4       |                         | $\perp$  |          | _         | L   |       | 122          |                           | _                  |          |                                     | Ш               |          |          | _   |          |
| $\vdash \vdash$   | 23       | ₹,        |          | $\dashv$ |               |               | _        |        | $\sqcup$ |          |          | 73           | -        |          | _   | $\perp$ | 1                       | Ш        | $\perp$  | _         | ļ   |       | 123          | _                         | _                  |          |                                     |                 |          |          | _   | _        |
|   | 24<br>25 | P         |          | $\dashv$ | $\dashv$      | -+            |          |        | H        | $\dashv$ |          | 74           | $\vdash$ | -        | +   | +       | +                       |          |          | 4         | - } |       | 124          | _                         | _                  | _        | _                                   |                 | $\Box$   | _        | _   | _        |
| $\vdash$  | 26       | Н         | $\dashv$ | $\dashv$ | -             |               | _        |        | Н        |          | -        | 75<br>76     | -        |          | +   | +       | ╀                       | $\vdash$ | $\vdash$ |           | ŀ   |       | 125          | $\dashv$                  | -                  |          | _                                   |                 |          | $\dashv$ | $\dashv$  | $\dashv$ |
| $\vdash$  | 27       | Н         | +        | $\dashv$ | $\dashv$      | $\dashv$      | _        |        | H        | $\dashv$ | -        | 77           | $\vdash$ | -        | +   | +       | +                       | $\vdash$ | $\dashv$ |           | ŀ   |       | 126          | $\dashv$                  |                    |          | $\vdash$                            |                 |          |          | $\dashv$  | 4        |
| <del>                                     </del>                                  | 28       | Н         | $\dashv$ | ᅱ        | $\dashv$      | $\dashv$      | $\dashv$ |        |          | $\dashv$ | -        | 78           | +        |          | +-  | +       | +-                      | Н        | -+       | -         | ŀ   |       | 127<br>128   |                           | -                  | $\dashv$ | $\vdash$                            |                 | -        |          | $\dashv$  |          |
| $\vdash$  | 29       | Н         | $\dashv$ | +        | -             | $\dashv$      | -        |        | $\dashv$ | -        |          | 79           | $\vdash$ |          |   | +       | +-                      | $\vdash$ | $\dashv$ | $\dashv$  | ŀ   |       | 129          | $\dashv$                  | -+                 | -        | -                                   |                 |          | -        | $\dashv$  | $\dashv$ |
| <del>                                     </del>                                  | 30       | Н         | $\dashv$ | ᅥ        | $\dashv$      | _             |          |        |          | -        | -        | 80           | +        | +        | +   | +       | ╁                       | Н        | -        | $\dashv$  | ŀ   |       | 130          | $\dashv$                  | ╡                  |          | H                                   |                 | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |
|   | 31       | Н         | $\dashv$ | ┪        | _             | _             |          |        | $\neg$   | 一        |          | 81           | $\Box$   | $\dashv$ | +   | +-      | ╁                       | H        | $\dashv$ | $\dashv$  | - } | -     | 131          | $\dashv$                  | $\dashv$           | $\dashv$ |                                     |                 | _        | +        | +   | ᅥ        |
|   | 32       | Н         | 7        | 7        | ┪             | $\dashv$      | $\neg$   |        | _        |          |          | 82           | $\vdash$ | $\dashv$ | 十   | +       | +                       | H        | +        | $\dashv$  | ŀ   |       | 132          | -                         | 十                  | $\dashv$ |                                     |                 | _        | -        | $\dashv$  | ᅱ        |
|   | 33       |           | , 🕇      | 7        |               | 1             |          | $\neg$ |          |          |          | 83           | H        | $\neg$   | _   | +       | +                       | П        | 十        | $\dashv$  | Ì   | -     | 133          | -                         | 寸                  | -        | -                                   |                 |          | $\dashv$ | $\dashv$  | $\dashv$ |
|   | 34       | N         | 寸        |          | 1             | 7             |          |        | $\Box$   |          |          | 84           | П        |          | $\top$  | $\top$  | T                       | -        | $\dashv$ | $\dashv$  | ŀ   |       | 134          | _                         | $\dashv$           | -        | $\vdash$                            | Н               | -        | $\dashv$ | $\dashv$  | $\dashv$ |
|   | 35       |           |          | _†       |               |               |          |        |          |          |          | 85           | $\sqcap$ | $\dashv$ | $\top$  | 十       | 1                       | П        | $\dashv$ | $\dashv$  | f   |       | 135          |                           | $\dashv$           | ᅥ        |                                     |                 |          | 一        | $\dashv$  |          |
|   | 36       |           |          |          |               |               |          |        |          |          |          | 86           |          | $\Box$   | 7   | 丁       | 1                       | П        | $\dashv$ | $\exists$ | ļ   |       | 136          | 7                         | $\dashv$           | $\neg$   |                                     | $\Box$          | 一        | 寸        | $\dashv$  |          |
|   | 37       |           |          |          | ┚             |               |          |        |          |          |          | 87           |          |          |   |         |                         | П        | 7        | $\exists$ | -   |       | 137          | ᅦ                         | $\dashv$           |          |                                     | $\vdash \vdash$ | 一        | 7        | $\dashv$  | $\dashv$ |
|   | 38       |           |          | $\Box$   |               |               |          |        |          |          |          | 88           |          |          |   |         |                         |          |          | $\Box$    | Ī   |       | 138          | $\dashv$                  | $\neg$             | $\neg$   |                                     |                 |          | $\neg$   | $\dashv$  |          |
|   | 39       |           |          | $\Box$   | $\Box$        | I             |          |        |          |          |          | 89           |          |          |   | Ι       | $oldsymbol{\mathbb{L}}$ |          |          |           | ſ   | 1     | 139          |                           |                    |          |                                     |                 |          |          | $\neg$  |          |
|   | 40       |           |          | $\perp$  | $\Box$        | ↲             |          |        |          |          |          | 90           | $\Box$   |          |   | $\perp$ |                         |          |          |           |     |       | 140          |                           | ┚                  |          |                                     |                 |          |          |   |          |
| $\vdash$  | 41       | $\sqcup$  | _        | $\perp$  | _[            |               |          | $\Box$ |          |          |          | 91           | Ш        | $\Box$   |   |         |                         |          |          |           |     | ]     | 141          |                           |                    |          |                                     |                 |          |          |   |          |
|   | 42       |           | $\dashv$ | 4        | _             | ightharpoonup | ļ        |        | $\Box$   | _        | <u> </u> | 92           | Ш        | _[       | $oldsymbol{ol}}}}}}}}}}}}}}}$ |         |                         | Ш        | $\bot$   | $\Box$    |     |       | 142          | $\Box$                    |                    |          |                                     |                 |          | $\Box$   | $\Box$  |          |
| $\sqcup \bot$   | 43       |           | 4        | 4        |               | $\downarrow$  |          | _      | ļ        | _        | <u> </u> | 93           | $\sqcup$ |          |   | $\perp$ | 1                       | Ш        |          |           |     |       | 143          |                           | $\Box$             |          |                                     |                 |          |          | $oldsymbol{ol}}}}}}}}}}}}}}}$ |          |
|   | 44       | $\Box$    | 4        | 4        | $\dashv$      | _             |          |        | _        | _        | <u> </u> | 94           | Ш        | _        |   | _       | ↓_                      | Ш        | $\perp$  |           |     | ]     | 144          |                           | $oldsymbol{\perp}$ |          |                                     |                 |          | $\Box$   | $oxed{oxed{J}}$   |          |
| <del>                                     </del>                                  | 45       | $\dashv$  | -+       | 4        | $\dashv$      | _             |          | _      | 4        | _        | <u> </u> | 95           | $\sqcup$ | $\perp$  | _ _   | ┸       | <u> </u>                | Ш        | $\perp$  | $\Box$    | L   |       | 145          | _                         |                    |          |                                     |                 |          | $\Box$   | $\Box$  |          |
| $\vdash \vdash$   | 46       |           | _        | $\dashv$ | $\dashv$      | $\dashv$      | _        |        | _        | _        | <u> </u> | 96           | $\sqcup$ | _        |   | $\perp$ | ↓_                      | Ш        | _        | _         |     |       | 146          |                           | $\perp$            |          | ]                                   |                 |          |          | $\Box$  |          |
|   | 47       |           | -+       | 4        | $\dashv$      | _             | _        |        |          | _        | <u> </u> | 97           | $\sqcup$ | 4        | _   | $\perp$ | $\bot$                  | Ш        | _        |           |     |       | 147          |                           | $\perp$            |          |                                     | $\perp$         | $\perp$  | $\bot$   | [   |          |
| $\vdash \!$ | 48       |           | -        | 4        |               | 4             |          |        | _        | 4        | <u> </u> | 98           | $\sqcup$ | _        | $\perp$   | $\bot$  | $\perp$                 | Ш        | $\dashv$ | _         | ļ   |       | 148          | $ \bot \!\!\! \downarrow$ | _                  | _        |                                     |                 |          | $\perp$  |   | ╝        |
|   | 49       | -         | +        | 4        | $\dashv$      | $\dashv$      | $\dashv$ |        |          | _        |          | 99           | $\sqcup$ | $\dashv$ |   | $\perp$ | $\perp$                 | $\sqcup$ | $\dashv$ | _         | Ļ   |       | 149          | _                         | _                  |          | Ш                                   |                 |          | _        | 4   | _        |
| oxdot   | 50       |           |          |          |               |               |          |        | L        |          | L        | 100          | Ш        |          |   | ┸       |                         |          |          |           | L   | 1     | 150          |                           |                    |          |                                     |                 | _        | L        |   | _]       |